Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-05-22-57 **Date: 11-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part I DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-02-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-05-22-57** **Date: 09-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-02-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-05-22-57** **Date: 11-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "'Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-02-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-05-22-57** **Date: 11-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-05-22-57** **Date: 11-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "'Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-02-2019
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-02-2019
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	CP-2019-05-22-57	**Date: 13-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.	
Agency	:	Sri.R.Ranganath, No:181-P "'Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.	
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-02-2019	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	12-02-2019	

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-05-22-57**	**Date: 18-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.	
Agency	:	Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.	
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-02-2019	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	14/02/2019	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

Date: 18-02-2019

Lab ID	:	CP-2019-05-22-57
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "'Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-2019
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	14/02/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	241.5	7.7	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/03/2019

Lab ID	:	CP-2019-05-22-57
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-2019
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/02/2019	05/03/2019	149.15 X 150.33 X 150.58	22422	8.913	418.7	18.7	18.5
2	Drain Bottom Slab Concrete	M20	26/02/2019	05/03/2019	151.29 X 150.26 X 151.71	22733	8.254	420.3	18.5	
3	Drain Bottom Slab Concrete	M20	26/02/2019	05/03/2019	150.56 X 150.06 X 149.87	22593	8.702	416.6	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-05-22-57** **Date: 06/03/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-2019
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	27/02/2019	06/03/2019	150.01 X 151.66 X 151.79	22751	8.913	426.9	18.8	18.4
2	Culvert Bottom Slab Concrete	M20	27/02/2019	06/03/2019	149.95 X 149.81 X 149.38	22464	8.254	408.7	18.2	
3	Culvert Bottom Slab Concrete	M20	27/02/2019	06/03/2019	149.62 X 151.49 X 151.30	22666	8.702	411.1	18.1	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-05-22-57 **Date: 06/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.

Agency : Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/105/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-2019

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	27/02/2019	06/03/2019	149.15 X 151.84 X 151.21	22647	8.913	427.4	18.9	18.7
2	Culvert Bottom Slab Concrete	M20	27/02/2019	06/03/2019	149.44 X 149.56 X 150.23	22351	8.254	412.6	18.5	
3	Culvert Bottom Slab Concrete	M20	27/02/2019	06/03/2019	150.87 X 151.28 X 150.97	22823	8.702	426.5	18.7	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/03/2019

Lab ID	:	CP-2019-05-22-57
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	12/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	05/03/2019	12/03/2019	150.81 X 151.45 X 150.61	22841	8.913	414.3	18.1	18.3
2	Drain Side Wall Concrete	M20	05/03/2019	12/03/2019	150.07 X 150.17 X 149.86	22537	8.254	408.9	18.1	
3	Drain Side Wall Concrete	M20	05/03/2019	12/03/2019	150.26 X 149.26 X 149.94	22427	8.702	419.4	18.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-05-22-57 **Date: 13/03/2018**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.

Agency : Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/105/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-2018

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	06/03/2018	13/03/2018	149.07 X 150.54 X 149.86	22441	8.913	421.5	18.8	18.4
2	Culvert Side Wall Concrete	M20	06/03/2018	13/03/2018	149.50 X 149.66 X 149.28	22375	8.254	402.8	18.0	
3	Culvert Side Wall Concrete	M20	06/03/2018	13/03/2018	149.31 X 150.56 X 151.06	22479	8.702	415.0	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-05-22-57 **Date: 13/03/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.

Agency : Sri.R.Ranganath, No:181-P "Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.

Customer's Reference : EE(YNK.D)E-PMT-03/W.O/105/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-03-2019

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	06/03/2019	13/03/2019	150.78 X 149.35 X 150.57	22519	8.913	424.2	18.8	18.5
2	Culvert Side Wall Concrete	M20	06/03/2019	13/03/2019	150.84 X 149.67 X 151.37	22576	8.254	419.5	18.6	
3	Culvert Side Wall Concrete	M20	06/03/2019	13/03/2019	150.75 X 149.09 X 149.97	22476	8.702	407.0	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 03/04/2019

Lab ID	:	CP-2019-05-22-57
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Emergency Works in Ward No 03.
Agency	:	Sri.R.Ranganath, No:181-P "'Indira Nilaya" NTI-1st Stage, AMCO Layout Main Road, Kodigehalli, Hebbal.
Customer's Reference	:	EE(YNK.D)E-PMT-03/W.O/105/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-2019
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	06/03/2019	03/04/2019	151.01 X 150.95 X 150.35	22795	8.293	533.6	23.4	23.0
2	Culvert Side Wall Concrete	M20	06/03/2019	03/04/2019	149.08 X 149.18 X 149.93	22240	8.677	501.7	22.6	
3	Culvert Side Wall Concrete	M20	06/03/2019	03/04/2019	150.31 X 149.19 X 151.38	22425	8.454	517.3	23.1	

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